I ST And Final Bill

M. A. R. 57 (Rule 116)
Measurement Book

Work code · 005-18-00007/
No. BESTcost Rs-25.00
495522 Cash

Serial No. .....
Name of Work Maintenance & Existing Borewell in Ward No. 05 Byatarayanapura From Sub division To .....
Name of Contractor of nature of Agency M/S Khanthi Electricals
Date of commencement of work Sri. H.V. Nagaraj. Thirumala Complex.

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Work order No · BBMP/EE/BTP/WO/40/2018.19.					Date. 17.07.2018.	
(1)	Lifting & Submersible Pump Set as per specification and direction. Log book Enclosed	2	45	40	Lengths :	4050 Nos	
	Rate. 95:00						384750:00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
②	Transportation & Pumping machineries. Log book Enclosed.						
	Rate. 800:00	45	-	-	-	45 Nos	36000:00
③	Labour Charges (Cover hauling) Log book Enclosed						
	Rate. 550:00	45	-	-	-	45 Nos	24750:00
④	Repairing to Motor. Rewinding & Submersible pump sets with copper insulation wire & Sealable grease as per IS1 Specification with Guarantee of 6 months 10 HP						

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M. A. R. 57 (Rule 116)
Measurement Book

No. B 495523

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		Log book Enclosed					
	Rate. 4785:00	5	–	–	–	5 Nos	23925:0
(5)	Rewinding & Submersible Pump Set					7.5 HP.	
		Log book Enclosed.					
	Rate. 3822:00	10	–	–	–	10 Nos	38220:0
(6)	Rewinding & Submersible Pump Set					12.5 HP	
	Rate. 5885:00	10	Log book Enclosed. –	–	–	10 Nos	58850:0

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	⑦ Rewinding & Submersible Pump Set 15.0 HP Log book Enclosed.						
		20	-	-	-	20 Nos	116000:00
	Rate. 5800:00						
	⑧ Starter (With one year Guarantee) Log book Enclosed.						
		15	-	-	-	15 Nos	75750:00
	Rate. 5050:00						
	⑨ Rotor (With one year Guarantee) Log book Enclosed						
	Rate. 4600:00	30	-	-	-	30 Nos	138000:00

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

495524

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(10)	Pump Bowls. Log book Enclosed. Rate. 700:00	400	—	—	—	400 Nos	280000:00
(11)	Pump Bowls Intermediate Piece with Leaded Bronze bush Log book Enclosed. Rate. 450:00	40	—	—	—	40 Nos	18000:00
(12)	Upper Flange. Log book Enclosed. Rate. 350:00	45	—	—	—	45 Nos	15750:00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measuremer
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(13)	Lower Housing Log book Enclosed. Rate · 650 : 00	45	-	-	-	45 Nos	29250 : 0
(14)	Carbon Housing Log book Enclosed Rate · 475 : 00	45	-	-	-	45 Nos	21375 : 0
(15)	Thrust bearing block assembly comprises of segm bearing pad. Log book Enclosed Rate · 1150 : 00	45	-	-	-	45 Nos	51750 : 00

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To.....

495525

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(16)	oil Seal. Log book Enclosed. Rate. 125:00	45	-	-	-	45 Nos	5625:00
(17)	oil Seal Steel Bush. Log book Enclosed. Rate. 150:00	45	-	-	-	45 Nos	6750:00
(18)	Guide vane. Log book Enclosed. Rate. 175:00	200	-	-	-	200 Nos	35000:00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(19)	Impeller Shell moulded in Aluminium Bronze. Log book Enclosed. Rate · 425 : 00	45	-	-	-	45 Nos	19125 : 00
(20)	Discharge outlet (D.O) Bearing D.O Steel Bush. Log book Enclosed. Rate · 445 : 00	65	-	-	-	65 Nos	28925 : 11
(21)	D.O. Bearing Log book Enclosed. Rate · 285 : 00	65	-	-	-	65 Nos	18525 : 00

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

495526

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(22)	Steel Bush Log book Enclosed Rate. 150:10	325	–	–	–	325 Nos	48750:00
(23)	Allen Screw Log book Enclosed. Rate. 25:10	225	–	–	–	225 Nos	5625:00
(24)	Pump Shaft made out of Stainless Steel Centreless ground with key way (11 no 8 stage).						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Log book Enclosed						
		35	-	-	-	35 Nos	
	Rate · 950 : 00						33250 : 00
(25)	Pump key (Stainless Steel)						
	Log book Enclosed.						
		35	-	-	-	35 Nos	
	Rate · 125 : 00						4375 : 00
(26)	Pump Coupling (Stainless Steel)						
	log book Enclosed.						
		45	-	-	-	45 Nos	11250 : 00
	Rate · 250 : 00						
(27)	Non. Return Valve (NRV) assembly complete with rubber O ring						

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To.....

495527

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		Log book Enclosed.					
	Rate · 1350 : 00	25	-	-	-	25 Nos	33750 : 00
(28)	Cable Guard						
		Log book Enclosed.					
	Rate · 150 : 00	45	-	-	-	45 Nos	6750 : 00
(29)	Strainer.						
		Log book Enclosed.					
	Rate · 150 : 00	45	-	-	-	45 Nos	6750 : 00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(30)	Brass Filter Log book Enclosed Rate. 250=00	45	-	-	-	45 Nos	11250=00
(31)	Labour Charges (Cover Hauling only) Log book Enclosed. Rate. 556=00	45	-	-	-	45 Nos	25020=00
(32)	Re. Erection Charges & pumping maintenance including over hauling and painting Log book Enclosed. Rate. 950=00	40	-	-	-	40 Nos	38000=00

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

495528

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(33)	Lock Ring Log book Enclosed.	60	-	-	-	60 Nos	5100:00
	Rate · 85:00						
(34)	Carbon Housing Log book Enclosed.	40	-	-	-	40 Nos	19000:00
	Rate · 475:00						
(35)	TOP Carbon/Ferro do padding Log book Enclosed.	40	-	-	-	40 Nos	6000:00
	Rate · 150:00						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(36)	Stud and Nuts Log book Enclosed.						
		200 ✓	–	–	–	200 Nos	10000:00
	Rate · 50:00						
(37)	Bearing (Aluminium Centrifugal) Cast Aluminium						
	Bronze Bearing Bush Log book Enclosed.						
		40 ✓	–	–	–	40 Nos	16000:00
	Rate · 400:00						
(38)	Circlips Log book Enclosed.						
		100 ✓	–	–	–	100 Nos	5000:00
	Rate · 50:00						

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

495529

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(39)	Motor Base with pin Log book Enclosed. 25 Rate. 475:00	25	–	–	–	25 Nos.	11875:00
(40)	Supply and delivery of size & grade New Texmo/Innoval/ Lubi/Sabar/Atlantal/Calamal/Wasserman/Radha make Suitable HP deep well Submersible pump set Suitable for Vertical installation in 100 dia borewell Comprising Single Stage of multi stage CI Pump Case coupled by means						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	& Stainless Steel Speed to dully enclosed Water Squirrel Cage Submersible for operation & 3 phase 2 Supply fitted with required Casing Sleeve Shrinking Valve etc. Complete the Pump and Motor Integral unit with all the required Base.	Comprising to Suitable HP Submersible cage induction motor 380/440 volts AC 50 cycles 3 phase 2 wire Starter & Control Panel Board Guard non return 18-0 HP 25					
	① Proposed layout (Kogilu) over Tank	1	—	—	—	1	
	② Munegowara layout (Rathigenahalli)	1	—	—	—	1	
	Rate · 74377.00					2 Nos	14875/-

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

495530

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(41)	Supplying and delivery of Size Grand Meru/Essem/Losel Sunshine/Adarsh/HP controls cost indigenous make consisting meter cum control panel board unit of size 1200 x 600 x 300mm min mum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3 ph 50 Hz 380/440 volts AC supply with spring loaded latch locking with a key this should be provided inside the door canopy apron and louvers ventilations shall be provided the combined Energy meter cum Control board unit shall have for operation on 3 ph 50 Hz 380/440 A.C supply shall be confirmed else. Compose TPN board shall be fabricated components panel board for suitable						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Refer to Measu
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
	Pumpsets above 6.50 HP to 15.0 HP with Star Delta Starter						
	(1) Srinivasapura (Burial ground)	1	–	–	–	1	
	(2) Agrahara	1	–	–	–	1	
	(3) Basava Lingappa Nagara (Police Station)	1	–	–	–	1	
	(4) Sriramapura (Anganwadi Main Road)	1	–	–	–	1	
						4 Nos	5920
	Rate. 14800:00						
(42)	Fabricating Supplying and mounting MS Bore & 16 SI						
	pentagle for floor Wall mounting Sheet Weather proof						
	provision for better heat dissipation providing MS hing						
	front cover earthed with pumper proof locking arrang						

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

495531

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	WR Suitable size clamps WR necessary Cage Entry Pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished WR approved colour enamelled wood paint etc. Complete box & 21600 Sq cm.						
	① Srinivasapura (Burial Ground)	1	1100.00	20.00	-	22000.00	
	② Agrahara Layout 17M cross	1	1100.00	20.00	-	22000.00	
	③ Nanjundeshwara Temple (Kattigenahalli)	1	1100.00	20.00	-	22000.00	
	④ Palanahalli Road	1	1100.00	20.00	-	22000.00	
	Rate. 0:30					88000.00 Sq cm	26400.00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(43) Supplying and drawing 3 core flat PVC sheathed Submersible pump cable manufactured with electrolytic grade copper conductors conforming to table 3 class 5 & IS 8130-1964 and virgin grade PVC insulation and sheaved Suitable for working voltage upto 1100 volts as per IS 5616 Strand 0.3mm dia Grade.						
	① Agurahara Layout to Kogilu Layout Main Road	1	420.00	—	—	420.00 Mtr	
	② Palanahalli to Nivarabe - nagara	1	293	—	—	293.00 Mtr	
	Rate · 185·00					713.00 Mtr	131905:00

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

495532

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(4)	Supplying and delivery of brand new best make non return valve of size 50 mm as per IS 778/84 with latest amendements with ISI mark (50mm Gate wheel valve. Log book Enclosed.						
		90	-	-	-	90 Nos	144000:00
	Rate. 1600:00						
(5)	Providing and fixing of 50 mm GI bend to motor. Log book Enclosed.						
	Rate. 219:00	60	-	-	-	60 Nos	13140:00

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Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(46)	Providing and fixing 8 50 mm GI nipple to motor. Log book Enclosed.						
	Rate. 100 : 00	60	-	-	-	60 Nos	6000 : 00
(47)	Providing and fixing 8 50 mm GI reunion to the motor Log book Enclosed.						
	Rate. 220 : 00	66	-	-	-	66 Nos	14520 : 00
(48)	Earthwork Excavation for Foundation & buildings Water Supply Sanitary lines and electrical Conduits either in Pits or in trenches 1.50 mm and above in width						

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To.....

495533

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	in hard Soil not exceeding 1-50 mtr in depth including dressing the bottom and sides & Pits & removal & stacking the excavated Soil clear from edges & excavation when called upto 50 Mtr after breakup & loads Compress as per Specification.						
	As Per Pre-measurment recorded vide Page No.. 495576 in this MB					59.03 M^3	7880 : 50
	Rate 133 : 50						
49	Providing and installing GI Size & work 63 mm (0.662) Pre Pipes & Fittings including cost & Pipes and Spares						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	and Labour including lowering into trenches laying true to line level and perfect jointing as joints cleaning including jointing by approved type with all Lab and Hire charges handling charges including excavation the pipe around to a depth not less than 15cm without or selected earth from the excavation etc. Complete.						
	As per Pre-measurement recorded vide Page No. 495577 in this MB.					175.00 MTR	
50	Rate: 365=00					63875=00	
	Refilling earth around Pipelines Cables in layers not exceeding 20cms in depth consolidating each deposited layer by ramming and watering						

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

495534

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	WM Lead upto 50 mtr and lift upto 1.50 mtr & all Lugs Complete as per Specification @ Bangalore wide Item no. (48) Page 44:50					59.03 M^3	including Cost 2626:83
(51)	Providing and fixing in position brass gate valve with CI wheel & approved Quality (Screwed end) 50 mm nominal bore including Cost & Necessary Lugs and nuts & bolts complete as per Specification.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Log book Enclosed						
		16	-	—	-	16 Nos	34800=00
	Rate · 2175=00						
(52)	Threading & GI Pipes 50mm Dia.						
	Log book Enclosed.						
	Rate · 25=00	1700	-	-	—	1700 Nos	42500=00
						Total RS -	2420042

29/8/19

ಸಹಾಯಕ ಅಧಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಮ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

C/Pc

ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಮ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

495535

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certificate. (1) Certified that the work done Satisfactory (2) This bill Amount has not been claimed in any of previous bill. 29/8/19 ಸಹಾಯಕ ಅಭಿಯಂತರರು ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24						

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